



Attorney Docket No. T10050

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: BARTON L. SMITH )  
 )  
TITLE: THERMOACOUSTIC COOLING )  
DEVICE )  
 )  
SERIAL NO.: 10/811,479 ) INFORMATION DISCLOSURE  
 ) STATEMENT UNDER 37 C.F.R.  
FILED: March 25, 2004 ) § 1.97  
 )  
EXAMINER: \_\_\_\_\_ )  
 )  
ART UNIT: \_\_\_\_\_ )

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Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449, which contains a list of patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully invokes the Patent Office's obligation under 37 C.F.R. § 1.97 to consider these references and make them of record in the above-captioned application. While no representation is made that any of these references may be "prior art" within the meaning of

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Certificate of Deposit Under 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, postage prepaid, in an envelope addressed to Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the 12 day of July, 2004.

*Karl R. Cannon*

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that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously cited by or submitted to the Office, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each listed reference (or relevant portion thereof) that was not previously submitted to, or cited by, the Patent Office is also enclosed.

Regarding the document entitled *Thermoacoustic Sound Source in the Helmholtz Limit*, by Richard Raspet et al., Department of Physics and Astronomy, University of Mississippi, to the best of Applicant's knowledge, the information in this document was presented in a meeting, in a non-confidential manner, in November, 1994, though the document was not accessible except by requesting a copy from the author. As discussed above, while no representation is made that this reference may be "prior art"

within the meaning of that term under 35 U.S.C. §§ 102 or 103, this reference is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Please charge any additional fees or credit any overpayment to  
Deposit Account No. 50-0836.

DATED this 12 day of July, 2004.

Respectfully submitted,

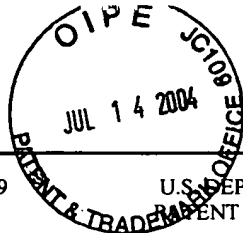


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PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. T10050		SERIAL NO. 10/811,479	
<b>LIST OF PRIOR ART CITED BY APPLICANT</b>				APPLICANT Barton L. Smith			
				FILING DATE March 25, 2004		GROUP	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIALS	AA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	4,599,551	Jul. 8, 1986	Wheatley et al.			
	AB	4,625,517	Dec. 2, 1986	Müller			
	AC	4,722,201	Feb. 2, 1988	Hofler et al.			
	AD	4,858,441	Aug. 22, 1989	Wheatley et al.			
	AE	4,948,360	Aug. 14, 1990	Wells			
	AF	5,146,750	Sep. 15, 1992	Moscrip			
	AG	5,329,768	Jul. 19, 1994	Moscrip			
	AH	5,412,950	May 9, 1995	Hu			
	AI	5,435,136	Jul. 25, 1995	Ishizaki et al.			
	AJ	5,456,082	Oct. 10, 1995	Keolian et al.			
	AK	5,465,578	Nov. 14, 1995	Barben et al.			
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	<u>TRANSLATION</u> YES NO
<b>OTHER PRIOR ART (Including Author, Title, Volume and/or Name of Publication, Relevant Pages and Date [as available])</b>							
	AL		Smith et al., "Controlled Interactions of Adjacent Synthetic Jets," AIAA 99-0669: American Institute of Aeronautics and Astronautics Inc., pp. 1-21, 1999.				
	AM		Smith et al., "Synthetic Jets at Large Reynolds Number and Comparison to Continuous Jets," AIAA 2001-3030: American Institute of Aeronautics and Astronautics Inc., pp. 1-19, 2001.				
	AN		Swift, "Thermoacoustic engines," 84(4): J. Acoust. Soc. Am., pp. 1145-1179, October, 1988.				
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>			
<b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. T10050		SERIAL NO. 10/811,479	
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EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AO	5,758,823	Jun. 2, 1998	Glezer et al.			
	AP	5,894,990	Apr. 20, 1999	Glezer et al.			
	AQ	5,901,556	May 11, 1999	Hofler			
	AR	5,957,413	Sep. 28, 1999	Glezer et al.			
	AS	5,988,522	Nov. 23, 1999	Glezer et al.			
	AT	5,996,345	Dec. 7, 1999	Hofler			
	AU	6,123,145	Sep. 26, 2000	Glezer et al.			
	AV	6,164,073	Dec. 26, 2000	Swift et al.			
	AW	6,385,972	May 14, 2002	Fellows			
	AX	2002/0172008	Nov. 21, 2002	Michael			
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
<b>OTHER PRIOR ART (Including Author, Title, Volume and/or Name of Publication, Relevant Pages and Date [as available])</b>							
	AY		Abdel-Rahman et al., "Size considerations in interfacing thermoacoustic coolers with electronics," in <i>2002 Inter Society Conference on Thermal Phenomena</i> , pp. 421-424, 2002.				
	AZ		Raspet et al., "Thermoacoustic sound source in the Helmholtz limit," 96(5): Journal of the Acoustical Society of America, p. 3221, November 1994.				
	BA		Rizzetta et al., "Numerical Investigation of Synthetic Jet Flowfields," AIAA 98-2910: American Institute of Aeronautics and Astronautics Inc., pp. 1-19, 1998.				
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